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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/786,243	02/24/2004	Charles L. Tilton	ISR-188	2725	
759	90 04/19/2006		EXAMINER		
Paul A. Knight			JONES, MELVIN		
2218 North Molter Road Liberty Lake, WA 99019			ART UNIT	PAPER NUMBER	
• ,			3744	3744	
			DATE MAILED: 04/19/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		E				
	Application No.	Applicant(s)				
	10/786,243	TILTON ET AL.				
Office Action Summary	Examiner	Art Unit				
	Melvin Jones	3744				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the d	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period v. Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tinuity will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 24 Fe	ebruary 2004.					
2a) ☐ This action is FINAL . 2b) ☑ This						
3) Since this application is in condition for alloward	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-14</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>1-7 and 14</u> is/are allowed.						
• •	6)⊠ Claim(s) <u>8-13</u> is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine						
10)⊠ The drawing(s) filed on <u>24 February 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage 						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
	·					
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 	Paper No(s)/Mail D 5) Notice of Informal I	Pate Patent Application (PTO-152)				
Paper No(s)/Mail Date <u>02/08/2005</u> . 6) Other:						

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United

States.

Claims 8-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Tilton et

al (US Patent No. 6,108,201). Tilton et al., discloses a fluid control apparatus and

method for spray cooling comprising a recipient base/circuit board (200), a front surface

with raised impingement surfaces/integrated circuit (220) whereby the raised

impingement surface being oriented to received atomized cooling fluid/coolant mist

(124) form a common atomizer (120); and a plurality of drainage passages among the

plurality of raised impingement surfaces each disposed to receive a flow of cooling fluid

flow and furthermore comprising, electronic devices with hotspot requiring cooling (220)

and inherently capable of receiving a liquid supply that is below or above its saturation

temperature prior to entering spray nozzles/orifices (122) and applying a thin evaporator

film layer over electronic devices.

Allowable Subject Matter

Claims 1-7 & 14 are allowed over the prior art of record.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melvin Jones whose telephone number is (571)272-4810. The examiner can normally be reached on Monday-Wednesday & Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cheryl Tyler can be reached on (571) 272-4834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Melvin Jones Primary Examiner Art Unit (3744)

MELVIN JONES
PRIMARY EXAMINER